MERRITT EVOLVE

Designed to adapt and excel in virtually any equipment application, the Merritt Evolve model joystick offers unprecedented levels of customization. Available with a J1939, CANOpen, or hall-effect output, the Evolve can be configured to a broad range of machinery and operations.



SPECIFICATIONS

GENERAL DATA

# of Axis	Single, Dual or Three* *Third axis is achieved via a twist handle function or thumbwheel.
Output Options	CANOpen & J1939, Hall-Effect, Redundant*, Redundant Reversed* *Available in late 2023
Joystick Action	Spring Return Operator Presence Switch
Handle Travel	+/- 20 degrees each axis
Gate	Open or Cross
Handle Compatibility	XG1, FG-4, RH, BH, RHS, G58, MG27 Custom handles available upon request.
Life	20 million plus cycles
Est. Shipping Weight	3lbs
Est. Shipping Dimensions	13 in. x 10 in. x 8 in.

MOUNTING DATA

Mounting Style	Drop-in
Mounting Footprint	3.5 in." x 3.5 in" Drop-in mount Reference product literature for additional mounting specifications

ENVIRONMENTAL DATA

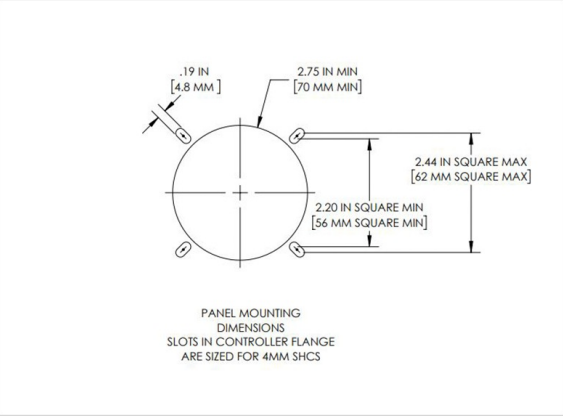
IP Rating	IP54* *IP Rating dependent on the handle device chosen.
Operating Temperature	-40 to +140 F [-40 to +60 C]
Storage Temperature	-40 to +176 F [-40 to +80 C]

ELECTRICAL DATA

Contact Specifications	
Hall-Effect Specifications	*Single 5V (Standard)* **Supply Voltage:** 4.5-5.5 VDC **Output Voltage:** Ratiometric 0.5 - 2.5 - 4.5 V ±0.15 V @ 5.0 V Supply **Output Current:** 10mA **Power Consumption:** 7 mA typical (5 - 10 mA max) *7-30 VDC* **Supply Voltage:** 7-30 VDC **Output Voltage:** 0.5 - 2.5 - 4.5 V ±0.15 V *EMC Emissions:* Complies with EN61000-6-4:2007; Class A Group 1,80- 1000MHz *EMC Immunity:* Complies with EN61000-6-2:2005 expanded to include: RFI Immunity of 100V/M @80 - 1000 MHz ESDImmunity of 15 Kv air, 8 Kv contact
Can Specifications	*CANOpen* Standard 2 analog joystick inputs (X/Y) Up to 14 digital inputs Up to 4 digital outputs* Up to 8 additional analog inputs* * Replacing digital inputs *J1939* Standard 2 analog joystick inputs (X/Y) Up to 14 digital inputs Up to 4 digital outputs* Up to 8 additional analog inputs* * Replacing digital inputs
Additional Specifications	Reference product literature for additional specifications

Technical Drawings

Mounting



Merritt Evolve Drop-in mounting